



Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

Renfro Creek (formerly Tributary to Cedar Creek)

Water Body Segment at a Glance:

County:	Callaway
Nearby Villages:	Youngers and Stephens
Length of impaired segment:	1.5 miles
Pollutant:	Low Dissolved Oxygen
Source:	No Source Given
Water Body ID:	0743



State Map Showing Location of Watershed

Scheduled for TMDL development: 2015

Description of the Problem

Beneficial uses of Renfro Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation

Use that is impaired

- Protection of Warm Water Aquatic Life

Standards that apply

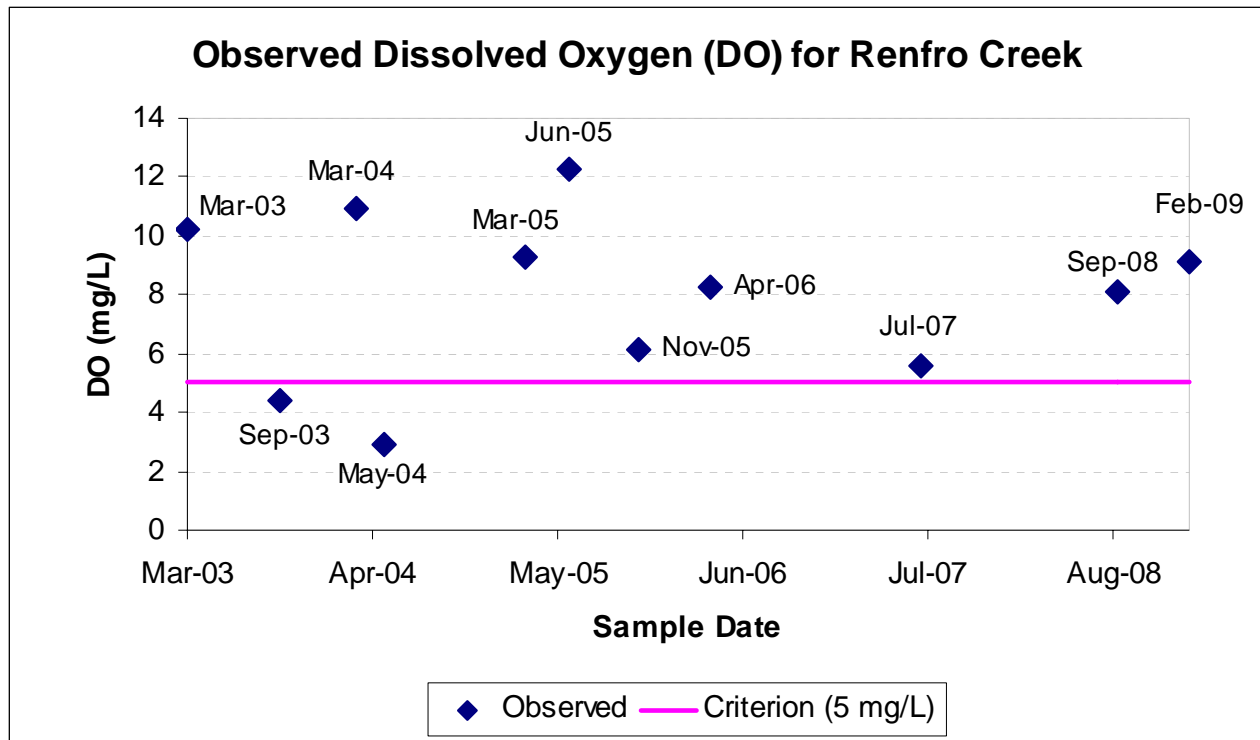
- In the Missouri Water Quality Standards, found in 10 CSR 20-7.031 Table A, the criterion for dissolved oxygen, or DO, in streams is a minimum of 5.0 mg/L (milligrams per liter or parts per million).

Background information and water quality data

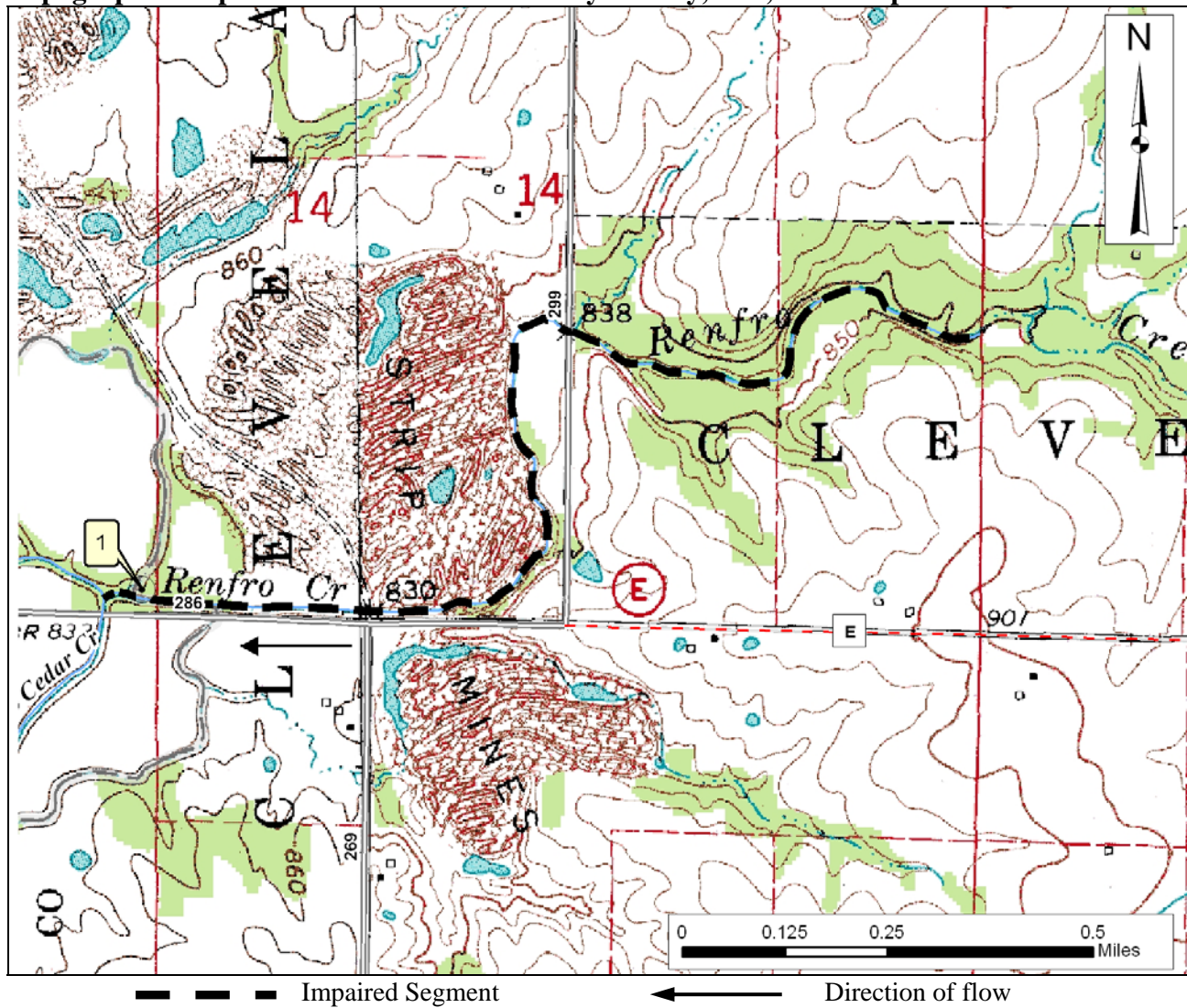
The name of this small, rural creek was changed from Tributary to Cedar Creek to Renfro Creek in the Oct. 30, 2009 revision of Missouri's water quality standards, to be in harmony with what is on the U.S. Geological Survey Geographic Name Information System. Renfro Creek flows west into Cedar Creek, which is the border between Boone and Callaway counties. There are no towns in the Renfro Creek watershed, but the creek is between the villages of Youngers and Stephens at the end of Route E in the northwest corner of Callaway County.

Water quality conditions in Renfro Creek are not protective of aquatic life. Dissolved oxygen is important as many aquatic organisms require high levels of oxygen to survive. For dissolved oxygen, if more than 10 percent of measurements in a water body fail to meet the water quality

criterion, that water body is judged to be impaired. In the case of Renfro Creek, two of 11 samples (18 percent) gathered between 2003 and 2009 did not meet the water quality criterion. It is not known what is causing the dissolved oxygen to be low.



Topographic Map of Renfro Creek in Callaway County, Mo., and Sample Site



Sample Site
1 – Renfro Creek near mouth

For more information call or write:

Missouri Department of Natural Resources

Water Protection Program

P.O. Box 176, Jefferson City, MO 65102-0176

1-800-361-4827 or 573-751-1300 office

573-522-9920 fax

Program Home Page: www.dnr.mo.gov/env/wpp/index.html